

BHT-009 Matter Heating Thermostat

User Guide



 **matter**
For Water Heating/Boiler/Electric Heating

Welcome

Please confirm that this product is suitable for your heating equipment before installation;
*Before installation or maintenance, please make sure to keep the power off;
*Please strictly follow the wiring diagram for wiring installation;
*Installation to the wall, please confirm that the fasteners are suitable for this product;
*Do not pull the cable too hard, otherwise the product will be damaged;
*If a hard plastic wire is used in the installation process, it must be bent to an appropriate angle in advance;
*Please arrange for professionals to install;
*Please contact the after-sales service for equipment failure, please do not try to repair it yourself;
* After installation, please refer to this manual to check again to ensure normal and safe use, and keep this manual properly.

In the box you will find

Thermostat 1pc Screws 2pc User Guide 1pc
QC Passed 1pc Floor Sensor 1pc (Floor Sensor is Optional)

ABOUT YOUR THERMOSTATS

The BHT-009 Matter range has been developed to control electric underfloor ,water heating or water/gas boiler system. These units are designed for use in commercial, industrial, civil and domestic properties.

FEATURES

On Appearance

1. LED display, more friendly interface;. LED matrix light, simple display, energy saving, protect your eyes.
2. Touch buttons to make simple operation.
3. The ultra-thin embedded panel perfectly fits all kinds of walls; The visiable thickens above the wall is only 12.4mm.
4. Frameless acrylic panel design, simple and elegant;
5. Classic black/white color scheme, seamlessly integrated.
6. Compatible with standard 86mm square cassettes and 60mm European cassettes to meet all installation environments;
7. Interlock to connect gives you easy installation.

On Functionality

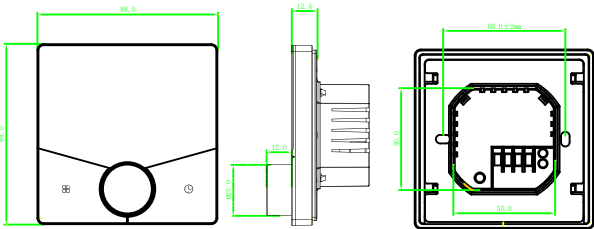
1. Strict temperature control accuracy ($\pm 1^{\circ}\text{C}$) to provide the warmth you want;
2. Power off protection, save all your settings safely;
3. Preset adjustment of 7days mode in a week, programmable setting of 6 time periods a day, green energy saving, Less cost, more intelligent and environmental protection;
4. Support the creation of product local groups/shares to achieve unlimited centralized control of the number of products/ multi-terminal control;
5. Perfect access: ALEXA/GOOGLE HOME /HOMEKIT /APPLE HOME, full experience new voice control method;

TECHNICAL DATA

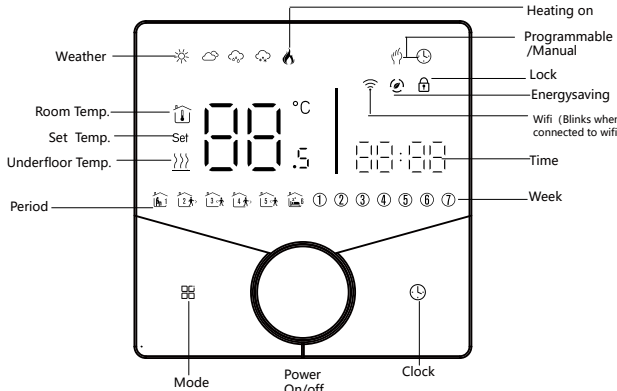
Power Supply:95 ~240 VAC, 50/60Hz or 24V DC/AC,50/60Hz
Please check the information laser printed on the back of the thermostat for the actual voltage.

Current Load: 5A (water heating, water/gas boiler),
16A (electric heating)
Sensor: NTC3950, 10K
Accuracy: $\pm 1^{\circ}\text{C}$
Set Temp. Range: 5-35 $^{\circ}\text{C}$
Room Temp. Range: 5-70 $^{\circ}\text{C}$
Display Temp. Range: 5 ~ 70 $^{\circ}\text{C}$
Ambient Temp.: 0~ 45 $^{\circ}\text{C}$
Ambient Humidity: 5 ~ 95 % RH (Non Condensing)
Storage Temp.: -5~ 45 $^{\circ}\text{C}$
Power Consumption: <1. 5W
Timing Error: < 1%
Shell Material: PC +ABS (Fireproof)
Installation Box: 86 * 86mm Square or European 60mm Round Box
Wire Terminals: Wire 2 x 1.5 mm² or 1 x 2.5 mm²
Protection Class: IP20
Buttons: Knob+Capacitive Touch Buttons

DIMENSION (Unit:mm)



HOME SCREEN QUICK REFERENCE



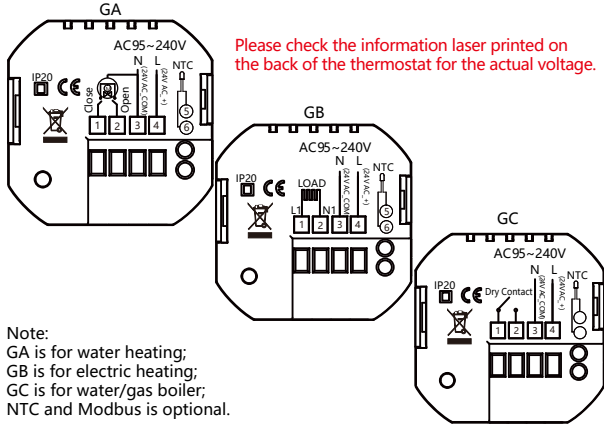
BEFORE WIRING AND INSTALL

1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Check the ratings given in the instructions and on the product to make sure the product is suitable for your application.
3. Installer must be a trained, experienced service technician.
4. After installation is complete, check out product operation as provided in these instructions.



Electrical Shock or Equipment Damage Hazard.
Can shock individuals or short equipment circuitry.
Disconnect power supply before installation.

WIRING

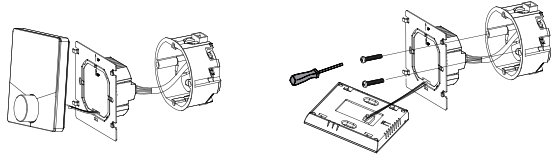


Note:
GA is for water heating;
GB is for electric heating;
GC is for water/gas boiler;
NTC and Modbus is optional.

INSTALLATION

Your thermostat is suitable for installation within a standard 86mm pattress box or European 60mm pattress box.

1. Accurately connect the power cable to the power terminal box.
2. Fix the mounting plate on the cassette with a screwdriver through two screws.



4. Installation completed



OPERATION

During Power On

1. Power On/off: Press the knob to turn the thermostat on/off.
2. Manual & Programmable
Touch  to change between manual mode  and programme mode .
In manual mode, will show on the display,
In programmable mode, will show on the display.
3. Setting Temperature
In the programming mode, the temperature setting and time setting will be locked. If the user wants to adjust, he must first adjust the thermostat to manual mode by pressing the  key.
In the manual mode, the desired temperature can be set by turning the knob.
4. Adjusting/Setting the Clock
Press  to set minute, hour and weekday. and adjust the values by turning the knob.
Press  once more to confirm and exit.

5. Locking your Thermostat
Press and hold the  and  for 5 seconds to lock/unlock your thermostat.
In item 3 of high senior options, you can select full lock or half lock.

6. Adjusting/Setting the Programmable Schedules
Press icon  four times in a row. You can see  and , and the minutes of time are flashing.

Turning the knob to set the minutes;
Press the icon  again, the hour of the time will flash, set the hour by turning the knob;
Press the icon  again, the temperature setting will flash, set the temperature turning the knob;
This completes the setting of periods1.

In the same way, complete the settings of periods2, 3, 4, 5 and 6.
Press the icon  once more to enter the    
  settings . Repeat the above process to set the period and temp. other schedule.
Press the icon  once more to confirm and exit.

Default settings for program schedule

Time display	MON. (2 shows on screen)		TUE. (2 shows on screen)		WED. (2 shows on screen)		THU. (2 shows on screen)		FRI. (2 shows on screen)		SAT. (2 shows on screen)		SUN. (2 shows on screen)	
	TIME	TEMP.	TIME	TEMP.	TIME	TEMP.	TIME	TEMP.	TIME	TEMP.	ON TIME	TEMP.	ON TIME	TEMP.
Period 1	6:00-8:00	20	6:00-8:00	20	6:00-8:00	20	6:00-8:00	20	6:00-8:00	20	6:00-8:00	20	6:00-8:00	20
Period 2	8:00-11:30	15	8:00-11:30	15	8:00-11:30	15	8:00-11:30	15	8:00-11:30	15	8:00-11:30	20	8:00-11:30	20
Period 3	11:30-13:30	15	11:30-13:30	15	11:30-13:30	15	11:30-13:30	15	11:30-13:30	15	11:30-13:30	20	11:30-13:30	20
Period 4	13:30-17:00	15	13:30-17:00	15	13:30-17:00	15	13:30-17:00	15	13:30-17:00	15	13:30-17:00	20	13:30-17:00	20
Period 5	17:00-22:00	22	17:00-22:00	22	17:00-22:00	22	17:00-22:00	22	17:00-22:00	22	17:00-22:00	20	17:00-22:00	20
Period 6	22:00-6:00	15	22:00-6:00	15	22:00-6:00	15	22:00-6:00	15	22:00-6:00	15	22:00-6:00	15	22:00-6:00	15

A separate schedule may be set for weekdays (Mon – Fri) and for weekends (Sat or Sun).

7. Checking the Temperature of Floor Sensor
Press and hold the  arrow for 5 seconds to display the temp. of floor sensor. If no external sensor is connected, the thermostat will display "Er".**Note: Do not use third-party external sensors, the temperature will be incorrect.**

8. Setting the Functions and Options
During power off, Press and hold  and  for 8 sec. in the order to reach system function. Then press  to scroll through the available functions, and use turning the knob to change the available options. All settings are confirmed automatically.

Code	Function	Setting and options	Default
1	Temperature compensation	-9 to 9 $^{\circ}\text{C}$ (for internal sensor)	-3
2	Deadzone temperature	1-5 $^{\circ}\text{C}$	01
3	Button locking	00: All buttons are locked except power button. 01: All buttons are locked.	01
4	Sensor typer	In: Internal sensor (to control the temp.) Ou: External sensor (to control the temp.) AL: Internal/External sensor (internal sensor to control the temp., external sensor to limit the temp.)	AL
5	Min. set temp.	5-15 $^{\circ}\text{C}$	05
6	Max. set temp.	15-45 $^{\circ}\text{C}$	35
7	Display mode	00 : Display both set temp. and room temp. 01 : Display set temp. only	00
8	Low temperature protection setting.	0-10 $^{\circ}\text{C}$	00
9	High temperature protection setting.	25-70 $^{\circ}\text{C}$	45
10	Economy mode	00: Non-energy saving mode 01: Energy saving mode	00
11	Economy temp.	0-30 $^{\circ}\text{C}$	20
12	Brightness at daytime (6:00-22:00)	0-8 When set to 0, the device will run for 10 seconds after inactivity.	03
13	Brightness at night (22:00-6:00)	0-8 The screen will go completely off with no display.	01
14	Screen line standby brightness	1-5	01
15	Reset	00: No factory reset; 01: Factory reset	00
16	Version number		U1

ABOUT WIFI
Wi-Fi Connection

Before using your Wi-Fi thermostat for the first time, you must configure the Wi-Fi signal and settings using your smartphone or tablet. This enables communication between your devices.

Step 1. Download your APP
(Support Smart Life /ALEXA/GOOGLE HOME /HOMEKIT /APPLE HOME)

Apple users can go directly to "HOMEKIT /APPLE HOME" and follow the steps to add the "HomePod " smart speaker.



Fig 1-1

To use the Smart Life APP, you need to search for "Smart Life" in the Apple Store or Google Play app store, or use a browser to scan the QR code below (Fig 1-3), and then follow the instructions to complete the account registration and installation according to the prompts of the APP.



Fig 1-2



Fig 1-3 IOS/Android

Users of other smart speakers such as ALEXA/GOOGLE HOME can search for ALEXA/GOOGLE HOME in the Apple Store or Google Play to download and install it. Follow the prompts to add the smart speaker device.



Fig1- 4 ALEXA



Fig1- 5 GOOGLE HOME

Step 2. Connect the thermostat

Click the power button to turn off the thermostat, then press and hold the button for 8 seconds. The network configuration icon on the thermostat will flash quickly to turn on the network configuration mode.

Method 1: Scan the QR code to configure the network
Turn on the WiFi and Bluetooth on your phone, and scan the QR code on the thermostat through the Smart Life app/ALEXA/GOOGLE HOME /HOMEKIT/APPLE HOME (Fig 2.1) to configure the network guide to complete the connection and settings (Fig 2.2-Fig 2.7)



Each matter thermostat has only one unique QR code

Fig2.1

The thermostat network needs to select 2.40Hz WiFi network for adding operation

Take APPLE HOME as an example:

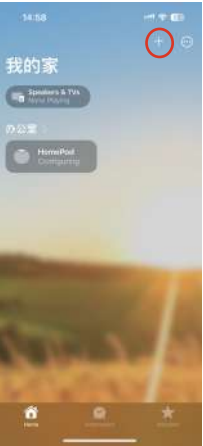


Fig2.2

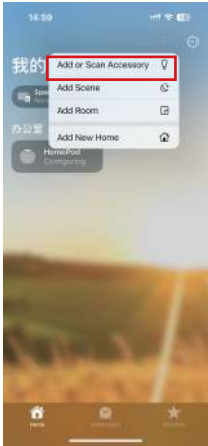


Fig2.3



Fig2.4



Fig2.8

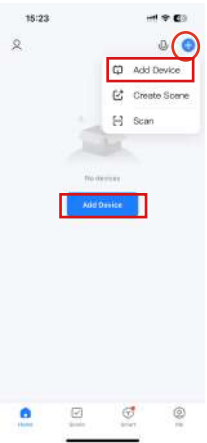
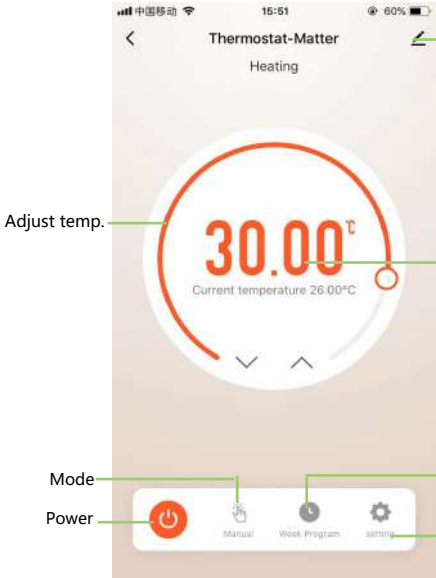


Fig2.9



Fig2.10

Smart Life APP operation interface description (Matter thermostat)



Adjust temp.

Target temp.

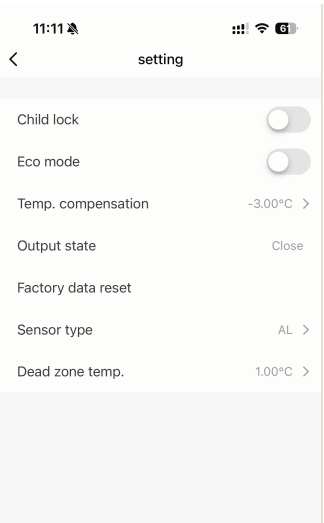
Mode

Power

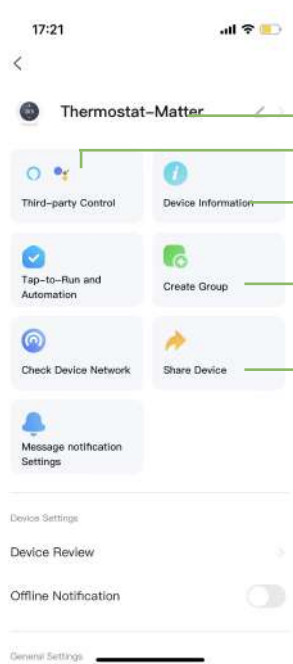
Set weekly programming schedule

Setting

Advanced option settings



More settings



Modify the name of the thermostat
Connect smart voice audio guide
View the virtual ID of the thermostat

Group multiple thermostats for management

Share the thermostat with your family

SIMPLE EXCEPTION HANDLING

Table with 3 columns: No., Phenomenons, Handling. It lists three common issues: power on but no display, no output but display works, and room temperature difference, with corresponding troubleshooting steps.

SERVICE

Your thermostat carries an 24 months warranty from date of purchase. Service out with the warranty period may incur a charge. More detail please contact with us directly.